

Safety Data Sheet Vanillin

1. Identification

Product name: Vanillin Catalog#: MSIG554

IUPAC name: 4-Hydroxy-3-methoxybenzaldehyde

Product use restrictions:

Only for research and development use by, or directly under the

supervision of, a technically qualified individual.

Company: MetaSci Inc.

1 Yonge St., Suite 1801

Toronto, M5E 1W7, ON, Canada

Telephone: (510) 429-8835 Website: www.metasci.ca

Emergency contact number: 1-800-633-8253 United States & Canada

1-801-629-0667 International

2. Hazard Identification

GHS Classification

Eye irritation (Category 2A)

Acute aquatic toxicity (Category 3) Chronic aquatic toxicity (Category 3)

Pictogram



Signal word Warning

Hazard statement(s)

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P264 Wash skin thoroughly after handling. P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye

protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several

minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.



P501

Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS None

3. Composition/Information on Ingredients

Synonyms: 4-Hydroxy-3-methoxybenzaldehyde

CAS#: 121-33-5 Purity: 98% (GC) EC#: 204-465-2

4. First Aid Measures

General information: Immediately remove any clothing contaminated by the product. Move out of dangerous area. Consult a physician and show this safety data sheet.

Inhalation: Move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical aid.

Skin contact: Immediately flush skin with running water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Obtain medical aid immediately. Eye contact: Immediately flush open eyes with running water for at least 15 minutes. Obtain medical aid immediately.

Ingestion: Do NOT induce vomiting without medical advice. Rinse mouth with water. Never administer anything by mouth to an unconscious person. Obtain medical aid immediately. Most important symptoms and effects, both acute and delayed: No further information available. Please see sections 2 and 11.

Indication of any immediate medical attention and special treatment needed: No further information available.

5. Fire Fighting Measures

Suitable extinguishing media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

Specific hazards arising from the chemical: Carbon oxides

Advice for firefighters: As in any fire, wear a NIOSH-approved or equivalent, pressure-demand, self-contained breathing apparatus and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Wear protective equipment and keep unprotected personnel away. Ensure adequate ventilation. Remove all sources of ignition. Prevent further leak or spill if safe to do so. For personal protective equipment, please refer to section 8.

Environmental precautions: Do not let product enter drains, other waterways, or soil.



Methods and materials for containment and cleaning up: Prevent further leak or spill if safe to do so. Vacuum, sweep up, or absorb with inert material and place into a suitable disposal container. Consult local regulations for disposal. See section 13 for further disposal information.

7. Handling and Storage

Precautions for safe handling: Avoid contact with skin, eyes, and personal clothing. Wash hands thoroughly after handling. Avoid breathing fumes. Use only with adequate ventilation. Wear suitable protective clothing, gloves, and eye/face protection. Keep away from sources of ignition. Minimize dust generation and accumulation. Keep container tightly closed. Open and handle container with care. Do not eat, drink, or smoke while handling.

Conditions for safe storage, including any incompatibilities: Store in a tightly-closed container when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from sources of ignition. Air sensitive. Light sensitive. Moisture sensitive.

8. Exposure Controls/Personal Protection

Exposure limits

OSHA PEL: No data available. NIOSH REL: No data available. ACGIH TLV: No data available.

Appropriate engineering controls: Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product. Facilities storing or utilizing this material should be equipped with an eyewash fountain. Use adequate general and local exhaust ventilation to keep airborne concentrations low.

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Hands:

Respiratory:

Based on an evaluation of the eye or face hazards present, wear chemical splash-resistant safety glasses or goggles with side

Eyes: protection. A face shield may be appropriate in some workplaces.
Use eyewear tested and approved under appropriate government

standards such as OSHA 29 CFR 1910.133 or EU EN166. Wear gloves selected based on an evaluation of the possible hazards to hands and skin, the duration of use, the physical

conditions of the workplace, and the chemical resistance and

physical properties of the glove material.

Protective clothing must be selected based on the hazards present

in the workplace, the physical environment, the duration of exposure, and other factors. No fabric can provide protection

Skin and body: exposure, and other factors. No fabric can provide protection against all potential hazards; therefore it is important to select the

appropriate protective clothing for each specific hazard. At the minimum, wear a laboratory coat and close-toed footwear.

Respirators are not a substitute for accepted engineering control measures such as enclosure or confinement of the operation,

general and local ventilation, and substitution of less toxic



materials. When respiratory personal protective equipment is appropriate based on an assessment of respiratory hazards in the workplace, use a NIOSH- or CEN-certified respirator.

9. Physical and Chemical Properties

White to off-white to light yellow powder, crystals, or crystalline Physical State:

powder

Molecular Formula: C8H8O3 Molecular Weight: 152.15 Odor: Vanilla-like

:Ha No data available. **Boiling Point Range:** 170°C (15mmHg)

Freezing/Melting Point: 80-84°C Flash Point: 153°C

Evaporation Rate: No data available.

Flammability (solid,

gas):

Please see section 2.

Explosive limits: No data available. Vapor Pressure: 1mmHg (107°C); <0.01

Vapor Density: 5.2

In water: 10g/L (25°C); Freely soluble in glacial acetic acid. Solubility:

alcohol, chloroform, ether, carbon disulfide

Relative Density: 1.06

Refractive Index: No data available. Volatility: No data available. **Auto-ignition** No data available.

temperature:

Decomposition No data available. Temperature:

Partition Coefficient: No data available.

10. Stability and Reactivity

Reactivity: No data available.

Stable under recommended temperatures and pressures. Chemical stability:

Possibility of hazardous

reactions:

No data available.

Conditions to avoid: Dust generation. Light. Air. Moisture and water.

Strong oxidizing agents. Incompatible materials:

Hazardous decomposition

products:

Carbon oxides

11. Toxicological Information

RTECS#: YW5775000

Acute toxicity: LD Dermal - Rat - >2mg/kg; LC Inhalation - Mouse -

>41700ug/kg - 2h; LC Inhalation - Rat - >41700ug/kg - 4h;



LD50 Subcutaneous - Rat - 1500mg/kg; LD50 Oral - Mouse -

3925mg/kg

Routes of exposure: Inhalation, eye contact, skin contact, ingestion.

Symptoms related to the physical, chemical and toxicological characteristics:

Skin contact may result in inflammation characterized by itching, scaling, reddening, blistering, pain or dryness. Eye contact may result in redness, pain or severe eye damage. Inhalation may cause irritation of the lungs and respiratory system. Overexposure may result in serious illness or death.

Carcinogenicity

IARC: Not classified.

NTP: Not listed.

OSHA: Not listed.

Acute toxic effects: Inflammation of the eye is characterized by redness, watering,

and itching. Skin inflammation is characterized by itching,

scaling, reddening, or, occasionally, blistering.

12. Ecological Information

Ecotoxicity: No data available. Persistence and No data available.

degradability:

Bioaccumulative No data available.

potential:

Mobility in soil:

Other adverse effects:

No data available.

No data available.

13. Disposal Considerations

Disposal of waste: Chemical waste generators must determine whether a discarded

chemical is classified as hazardous waste. US EPA guidelines for

the classification determination are listed in 40 CFR 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. Observe all federal, state and local regulations when

disposing of the substance.

Disposal of packaging: Do not reuse containers. Dispose of as unused product.

14. Transportation Information

DOT (United States)

UN number:
Proper shipping name:
Transport hazard class:
Packing group:
Not hazmat
Not applicable.
Not applicable.

IATA

UN number: Not DG

Proper shipping name: Not applicable. Transport hazard class: Not applicable.



Packing group: Not applicable.

15. Regulatory Information

TSCA Chemical Inventory:

This product is on the EPA Toxic Substance Control Act (TSCA) inventory. The product is supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR § 720 et seq. The health risks have not been fully determined. Any information that is or becomes available will be supplied on the SDS.

Canada

This product is listed in the Domestic Substance List (DSL).

DSL/NDSL:

This product is listed in the Domestic Substance List (DSL).

California

Proposition 65:

NFPA Rating: Health: 2

Flammability: 0 Instability: 0

16. Additional Information

Revision Date: 08/08/2019 Printed Date: 12/4/2019

Disclaimer:

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall MetaSci be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if MetaSci has been advised of the possibility of such damages.